



# Product Evaluation

CWSF56 | 0717

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** CWSF-56

**Effective Date:**

July 1, 2017

**Re-evaluation Date:**

July 2021

**Product Name:** Series E4500 Aluminum Storefront System, Non-Impact Resistant

**Manufacturer:** Tubelite, Inc.  
3056 Walker Ridge Drive NW  
Walker, MI 49544  
800-866-2227

## General Description:

The Series E4500 is an aluminum frame storefront system used for commercial installations. This evaluation report includes the following storefront assemblies:

- E4500 storefront with reinforcement
- E4500 storefront without reinforcement

**Doors:** Doors referenced in this product evaluation report are Tubelite, Inc. door products. The Tubelite, Inc. doors used with these assemblies must be listed in separate TDI product evaluation reports.

**Product Identification:** A Tubelite, Inc. label will be affixed to the storefront assembly.

- **Products Installed in Accordance with Drawing No. TDI-E4500-NI:** The label includes the manufacturer's name (Tubelite, Inc.); the product name (Storefront Series E4500); that the design pressure and maximum size are per drawing TDI-E4500-NI; and that the product complies with ASTM E 330.

**Limitations:****Design Drawings:**

Storefront assemblies must comply and be installed in accordance with the following design drawing:

- Drawing No. TDI-E4500-NI, "Tubelite Series E4500 Storefront," Sheets 1 thru 5 of 5, dated October 11, 2016, signed and sealed by Lucas A. Turner, P.E on October 12, 2016. This evaluation report refers to the stated drawings as the approved drawings.

**Fabrication and Assembly:** Tubelite, Inc. aluminum storefront systems are fabricated in the factory. The aluminum storefront systems are assembled and glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

**Design pressure (DP):**

- The aluminum storefront system has a maximum design pressure rating of  $\pm 30$  psf. Refer to the approved drawing for specific design pressure requirements.
- If the aluminum storefront system is used with doors, then the design pressure rating of the complete assembly will be the lesser of the allowable design pressure rating for the doors and the aluminum storefront system in this evaluation report.

**Impact Resistance:**

- The aluminum storefront system does not satisfy TDI's criteria for protection from windborne debris. These assemblies require an impact protective system when installed in areas where windborne debris protection is required.

**Acceptance of Other Assemblies:**

- The approved drawing specifies limitations on width.
- Assemblies must not exceed the heights shown on the drawing.
- Assemblies must not exceed the daylight opening widths and heights shown on the approved drawings.
- Doors used with these assemblies must be listed in separate TDI product evaluation reports.

**Installation Instructions:**

**General:** Prepare and install the assembly in accordance with the Tubelite published installation Instructions and the approved drawings specified in this evaluation report. Detailed installation instructions are available from Tubelite, Inc.

**Installation:**

**Wall Framing Construction:** The aluminum storefront system may be secured to several types of wall framing construction. Refer to the approved drawings for specific wall framing construction requirements.

**Fastener Requirements:**

- Refer to the approved drawings for the anchor layout and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

**Note:** Keep the manufacturer's installation instructions and the approved drawings available at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.